

## ABSTRACT OF THE DISCLOSURE

The invention provides isolated nucleic acids molecules, including 69087 nucleic acid molecules, which encode a novel G protein coupled receptor kinase, 15821 nucleic acid molecules, which encode a novel nuclear signaling protein, and 15418 nucleic acid molecules, which encode a mitogen-activated protein kinase phosphatase. The invention also provides antisense nucleic acid molecules, recombinant expression vectors containing 69087, 15821, or 15418 nucleic acid molecules, host cells into which the expression vectors have been introduced, and non-human transgenic animals in which a 69087, 15821, or 15418 gene has been introduced or disrupted. The invention still further provides isolated 69087, 15821, and 15418 proteins, fusion proteins, antigenic peptides and anti-69087, anti-15821, and anti-15418 antibodies. Diagnostic methods utilizing compositions of the invention are also provided.